QC ABSTRACT

NAME OF WORK: Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	PCC(M20)	Compressive Strength(7days and 28days)	3 set /16-30 cum	16.77	6	6

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-09-23-73** **Date: 04-06-20**
Project Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	01-06-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-06-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	–
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

Page 1/1
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-09-23-73 Date: 30-06-20
Project Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	01-06-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-06-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2020-09-23-73 Date: 03-06-20
Project Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	01-06-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-06-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

ID	:	CP-2020-09-23-73
		Date: 03-06-20
ject Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
ency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
stomer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
te of Receipt	:	01-06-20
mple Type	:	Fine Aggregate
ference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
te of test	:	01-06-20
otal weight taken	:	1000 grams

S.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	177	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Date
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TEST REPORT OF FINE AGGREGATE

b ID : CP-2020-09-23-73

Date: 03-06-20

YSICAL PROPERTIES

no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.86	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST RESULTS OF STEEL

: CP-2020-09-23-73

Date: 06-06-20

ime : Construction of Building and Other Civil Works and Playgrounds in Ward No - 01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

r's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

eceipt : 05-06-20

ype : Sunvik

to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

st: : 05-06-20

dentification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
		(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory

sults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2020-09-23-73

Date: 02/09/2020

ame : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Receipt : 28-08-20

e ID : PCC For Shiva Temple

Type /Size : 150X150X150 mm

Grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date : 02/09/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC For Shiva Temple	M20	26/08/2020	02/09/2020	150.45 X 149.59 X 149.15	22505	8.610	408.6	18.2	18.4
PCC For Shiva Temple	M20	26/08/2020	02/09/2020	150.05 X 150.20 X 151.97	22538	8.517	418.2	18.6	
PCC For Shiva Temple	M20	26/08/2020	02/09/2020	149.12 X 150.16 X 151.17	22392	8.603	414.5	18.5	

ults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2020-09-23-73

Date: 23/09/2020

Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

er's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Receipt : 28-08-20

er ID : PCC For Shiva Temple

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 23/09/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC For Shiva Temple	M20	26/08/2020	23/09/2020	150.54 X 149.90 X 151.67	22566	8.660	541.4	24.0	23.6
PCC For Shiva Temple	M20	26/08/2020	23/09/2020	149.73 X 149.34 X 151.41	22362	8.267	511.9	22.9	
PCC For Shiva Temple	M20	26/08/2020	23/09/2020	150.95 X 149.66 X 151.28	22591	8.218	540.6	23.9	

ults obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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Format No: CP/TF/01

: CP-2020-09-23-73

Date: 02/09/2020

: Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

: BBMP/EE/YNK.D/W.O/260/2019-20

: 28-08-20

: PCC For Shiva Temple

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 02/09/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC For Shiva Temple	M20	26/08/2020	02/09/2020	150.61 X 149.92 X 149.59	22579	8.610	414.8	18.4	18.3
PCC For Shiva Temple	M20	26/08/2020	02/09/2020	151.87 X 150.23 X 150.97	22815	8.517	412.2	18.1	
PCC For Shiva Temple	M20	26/08/2020	02/09/2020	150.11 X 149.54 X 151.19	22447	8.603	411.6	18.3	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2020-09-23-73

Date: 23/09/2020

: Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

: BBMP/EE/YNK.D/W.O/260/2019-20

: 28-08-20

: PCC For Shiva Temple

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 23/09/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC For Shiva Temple	M20	26/08/2020	23/09/2020	149.69 X 151.75 X 149.48	22716	8.660	524.8	23.1	23.0
PCC For Shiva Temple	M20	26/08/2020	23/09/2020	151.31 X 151.80 X 150.26	22968	8.267	525.8	22.9	
PCC For Shiva Temple	M20	26/08/2020	23/09/2020	150.08 X 150.02 X 150.21	22515	8.218	521.0	23.1	

Results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-09-23-73

Date: 02/09/2020

: Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Name : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

ner's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

f Receipt : 28-08-20

ner ID : PCC For Shiva Temple

e Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 02/09/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC For Shiva Temple	M20	26/08/2020	02/09/2020	149.86 X 150.07 X 150.52	22489	8.610	421.5	18.7	18.6
PCC For Shiva Temple	M20	26/08/2020	02/09/2020	151.51 X 150.78 X 151.39	22843	8.517	425.0	18.6	
PCC For Shiva Temple	M20	26/08/2020	02/09/2020	151.42 X 149.77 X 149.77	22679	8.603	419.2	18.5	

sults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಪ ಪಾ.ಎಂ.ಕ. ಬೆಂಗಳೂರು-106

CIVIL Pro Sq. Date. BANGALORE

FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | SURVEYING SERVICES |

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-09-23-73

Date: 23/09/2020

: Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

: BBMP/EE/YNK.D/W.O/260/2019-20

: 28-08-20

: PCC For Shiva Temple

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 23/09/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC For Shiva Temple	M20	26/08/2020	23/09/2020	151.95 X 151.78 X 151.08	23063	8.660	549.2	23.8	23.3
PCC For Shiva Temple	M20	26/08/2020	23/09/2020	149.74 X 150.40 X 151.56	22520	8.267	502.5	22.3	
PCC For Shiva Temple	M20	26/08/2020	23/09/2020	149.44 X 150.11 X 150.86	22432	8.218	532.9	23.8	

Results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-10

CIVIL Pro Sig. Date BANGALORE

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QC ABSTRACT

NAME OF WORK: Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	PCC(M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	17	10	10

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ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-09-23-73 **Date: 04-06-20**

Project Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 01-06-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 02-06-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	–
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

CIVIL Pro Sq Dam BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

ID	:	CP-2020-09-23-73
		Date: 30-06-20
ect Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
ıcy	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
omer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
of Receipt	:	01-06-20
ple Type	:	Birla Super 53grade
rence to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
of test	:	02-06-20
ironmental Conditions during	:	Temperature: 26°C Humidity: 72%

Compressive Strength

lo.	Physical properties	Results	Requirement as per IS 12269: 2013
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

ıe results obtained are satisfactory as per standard requirements.

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Format No: CP/TR/01

TEST REPORT ON COARSE AGGREGATES

Date: 04-06-20

Lab ID	:	CP-2020-09-23-73
Project Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/266/2019-20
Date of Receipt	:	01-06-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-06-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-09-23-73** **Date: 03-06-20**
Project Name	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	01-06-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-06-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	–

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

b ID : CP-2020-09-23-73 Date: 03-06-20

oject Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

gency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

ustomer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

ate of Receipt : 01-06-20

ample Type : Fine Aggregate

eference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

ate of test : 01-06-20

otal weight taken : 1000 grams

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	177	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

ID : CP-2020-09-23-73 Date: 03-06-20

YSICAL PROPERTIES

no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.86	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-09-23-73

Date: 11/08/2020

: Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Name

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

er's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Receipt : 16-07-20

er ID : PCC for Parking Lot

Type /Size : 150X150X150 mm

grade/Age : M25 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 11/08/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC for Parking Lot	M25	14/07/2020	11/08/2020	151.28 X 151.64 X 149.77	22940	8.415	534.3	23.3	23.1
PCC for Parking Lot	M25	14/07/2020	11/08/2020	151.72 X 150.74 X 150.62	22870	8.217	521.7	22.8	
PCC for Parking Lot	M25	14/07/2020	11/08/2020	151.17 X 149.61 X 151.28	22617	8.337	527.3	23.3	

e results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

: CP-2020-09-23-73

Date: 11/08/2020

Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

ner's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

f Receipt : 16-07-20

ner ID : PCC for Parking Lot

le Type /Size : 150X150X150 mm

le grade/Age : M25 / 28 Days Compressive Strength

rance to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 11/08/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC for Parking Lot	M25	14/07/2020	11/08/2020	151.99 X 149.86 X 151.34	22777	8.415	543.3	23.9	23.4
PCC for Parking Lot	M25	14/07/2020	11/08/2020	151.59 X 150.38 X 150.65	22795	8.217	519.8	22.8	
PCC for Parking Lot	M25	14/07/2020	11/08/2020	149.57 X 151.25 X 150.21	22622	8.337	531.4	23.5	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಯಲಹಂಕ ಉಪವಿಭಾಗ, ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-105

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2020-09-23-73

Date: 21/07/2020

Name : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

er's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Receipt : 16-07-20

er ID : PCC for Parking Lot

Type /Size : 150X150X150 mm

grade/Age : M25 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 21/07/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC for Parking Lot	M25	14/07/2020	21/07/2020	150.84 X 150.24 X 150.24	22662	8.722	428.0	18.9	18.5
PCC for Parking Lot	M25	14/07/2020	21/07/2020	151.23 X 150.69 X 151.16	22789	8.422	412.8	18.1	
PCC for Parking Lot	M25	14/07/2020	21/07/2020	149.26 X 149.60 X 150.54	22329	8.909	411.5	18.4	

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

CIVIL Pro Sq Date BANGALORE

FOR CIVIL Pro.

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Quality Manager

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****End of Report****

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Certificate No.: TC-6548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2020-09-23-73

Date: 11/08/2020

ID : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

ject Name : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

ency : BBMP/EE/YNK.D/W.O/260/2019-20

tomer's Reference : 16-07-20

te of Receipt : PCC for Parking Lot

tomer ID : 150X150X150 mm

mple Type /Size : M25 / 28 Days Compressive Strength

mple grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ference to BIS codes

te of test : 11/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC for Parking Lot	M25	14/07/2020	11/08/2020	149.82 X 151.03 X 149.86	22627	8.415	534.4	23.6	23.1
2	PCC for Parking Lot	M25	14/07/2020	11/08/2020	149.80 X 151.24 X 149.47	22655	8.217	507.5	22.4	
3	PCC for Parking Lot	M25	14/07/2020	11/08/2020	151.73 X 151.86 X 150.76	23040	8.337	536.1	23.3	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಆಯುಕ್ತರಾದ ಅಧಿಕಾರಿಗಳ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-10

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Page 1/1

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: CP-2020-09-23-73

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ame : Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

r's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Receipt : 16-07-20

er ID : PCC for Parking Lot

Type /Size : 150X150X150 mm

grade/Age : M25 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 21/07/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC for Parking Lot	M25	14/07/2020	21/07/2020	151.74 X 149.73 X 151.26	22721	8.722	414.9	18.3	18.2
PCC for Parking Lot	M25	14/07/2020	21/07/2020	149.23 X 149.61 X 150.81	22326	8.422	405.5	18.2	
PCC for Parking Lot	M25	14/07/2020	21/07/2020	150.15 X 150.79 X 151.92	22641	8.909	414.9	18.3	

he results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

: BBMP/EE/YNK.D/W.O/260/2019-20

: 16-07-20

: PCC for Parking Lot

: 150X150X150 mm

: M25 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 11/08/2020

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC for Parking Lot	M25	14/07/2020	11/08/2020	151.66 X 149.03 X 150.46	22602	8.415	533.2	23.6	23.2
2	PCC for Parking Lot	M25	14/07/2020	11/08/2020	151.96 X 151.77 X 151.85	23064	8.217	520.4	22.6	
3	PCC for Parking Lot	M25	14/07/2020	11/08/2020	149.83 X 151.89 X 149.39	22757	8.337	536.4	23.6	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

	:	CP-2020-09-23-73
Date: 21/07/2020		
Job ID	:	Construction of Building and Other Civil Works and Playgrounds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Project Name	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Agency	:	BBMP/EE/YNK.D/W.O/260/2019-20
Customer's Reference	:	16-07-20
Date of Receipt	:	PCC for Parking Lot
Customer ID	:	150X150X150 mm
Sample Type /Size	:	M25 / 7 Days Compressive Strength
Sample grade/Age	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Reference to BIS codes	:	21/07/2020
Date of test	:	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC for Parking Lot	M25	14/07/2020	21/07/2020	151.03 X 149.31 X 151.17	22550	8.722	416.6	18.5	18.3
2	PCC for Parking Lot	M25	14/07/2020	21/07/2020	151.63 X 151.76 X 151.47	23012	8.422	418.9	18.2	
3	PCC for Parking Lot	M25	14/07/2020	21/07/2020	151.18 X 151.97 X 150.02	22975	8.909	417.0	18.2	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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: BBMP/EE/YNK.D/W.O/260/2019-20

: 16-07-20

: PCC for Parking Lot

: 150X150X150 mm

: M25 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 11/08/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC for Parking Lot	M25	14/07/2020	11/08/2020	150.55 X 151.82 X 149.76	22856	8.415	540.9	23.7	23.4
PCC for Parking Lot	M25	14/07/2020	11/08/2020	149.30 X 150.83 X 151.55	22519	8.217	510.4	22.7	
PCC for Parking Lot	M25	14/07/2020	11/08/2020	151.94 X 149.60 X 149.77	22731	8.337	544.6	24.0	

The results obtained are satisfactory as per standard requirements.

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